

SEQUENCE LISTING

10/051193 15 JAN 2002

<110> NeXstar Pharmaceuticals, Inc.

<120> Tenascin-C Nucleic Acid Ligands

<130> NEX 86/PCT

<140>

<141>

<150> 09/364,902

<151> 1999-07-29

<160> 65

<170> PatentIn Ver. 2.0

<210> 1

<211> 71

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Nucleic Acid

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atcgtcctcc c 71

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<223> Description of Artificial Sequence: Nucleic Acid

<400> 2

taatacgact cactataggg aggacgatgc gg 32

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<223> Description of Artificial Sequence: Nucleic Acid

<400> 3
tcgcgcgagt cgtctg

16

<210> 4
<211> 71
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<222> (1)..(71)
<223> All pyrimidines are 2'F.

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gggaggacga ugcggcaauc aaaacucacg uuauucccuc aucuauuagc uccccagac 60
gacucgcccg a 71

<210> 5
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<223> All pyrimidines are 2'F.

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gacucgcccg a 71

<210> 6
<211> 71
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<223> All pyrimidines are 2'F.

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gggaggacga ugcggcaacc ucgaaagacu uuucccgcau cacuguguac ucccccagac 60
gacucgcccg a 71

<210> 7

<211> 71

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gggaggacga ugcggcaacc ucgauagacu uuucccgcau cacuguguac ucccccagac 60
gacucgcccg a 71

<210> 8

<211> 71

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<222> (1)..(71)

<223> All pyrimidines are 2'F.

<400> 8

gggaggacga ugcggcaacc ucaaucuuga cauuuccgc accuaaaauu gccccagac 60
gacucgcccg a 71

<210> 9

<211> 71

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<400> 9
gggaggacga ugcggcaaac gaucacuuac cuuuccugca ucugcuagcc uccccagac 60
gacucgccccg a 71

<210> 10
<211> 71
<212> RNA
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<223> All pyrimidines are 2'F.

<400> 10
gggaggacga ugcggacgcc agccauugac ccucgcuucc acuaauccau cccccagac 60
gacucgccccg a 71

<210> 11
<211> 70
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<223> All pyrimidines are 2'F.

<400> 11
gggaggacga ugcggccaac cucauuuuga cacuucgccg caccuaauug cccccagacg 60
acucgcccga 70

<210> 12
<211> 15
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<223> Description of Artificial Sequence: Nucleic Acid

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<222> (1)..(15)

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<400> 12

gacnyuuccn gcayc

15

<210> 13

<211> 71

<212> RNA

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<400> 13

gggaggacga ugcggaaccc auaacgcgaa ccgaccaaca ugccucccg gccccagac 60
gacucgccc a 71

<210> 14

<211> 70

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acucgcccga 70

<210> 15

<211> 71

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<222> (1)..(71)

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<400> 15

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gacucgccccg a 71

<210> 16

<211> 71

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gggaggacga ugcggaacac uuucccaugc gucgccauac cggauauauu gcucccagac 60
gacucgccccg a 71

<210> 17

<211> 71

<212> RNA

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<222> (1)..(71)

<223> All pyrimidines are 2'F.

<400> 17

gggaggacga ugcggacugg accaaaccgu cgccgauacc cggauacuuu gcucccagac 60
gacucgccccg a 71

<210> 18
<211> 71
<212> RNA
<213> Artificial Sequence

<220>
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<223> All pyrimidines are 2'F.

<400> 18
gggaggacga ugcggaacaa ugcacucguc gccguaaugg auguuuugcu ccucgcagac 60
gacucgcccg a 71

<210> 19
<211> 71
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<223> All pyrimidines are 2'F.

<400> 19
gggaggacga ugcgguuaag ucucgguuga augcccaucc cagaucacccc ugacccagac 60
gacucgcccg a 71

<210> 20
<211> 71
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<222> (1)..(71)
<223> All pyrimidines are 2'F.

<400> 20
gggaggacga ugcggauggc aagucgaacc aucccccacg cuucuccugu ucccccagac 60
gacucgccccg a 71

<210> 21
<211> 71
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<223> All pyrimidines are 2'F.

<400> 21
gggaggacga ugcgggaagu uuucucugcc uugguuucga uggcgccuc cccccagac 60
gacucgccccg a 71

<210> 22
<211> 71
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<400> 22
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gacucgccccg a 71

<210> 23
<211> 71
<212> RNA
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<400> 23

gggaggacga ugcggauggc aagucgaacc aucccccacg cuucuccugu ucccccagac 60
gacucgcccg a 71

<210> 24

<211> 76

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<222> (1)..(76)

<223> All pyrimidines are 2'F.

<400> 24

gggaggacga ugcggacuag accgcgaguc cauucaacuu gcccacaaaaa aaaccucccc 60
cagacgacuc gcccg 76

<210> 25

<211> 71

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gggaggacga ugcgggagau caacauuccu cuaguuggu uccaaccuac acccccagac 60
gacucgcccg a 71

<210> 26

<211> 71

<212> RNA

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gggaggacga ugcggacgag cgucucauga ucacacuaau ucgucucagu gugcacagac 60
gacucgccccg a 71

<210> 27
<211> 71
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gggaggacga ugcggucgac cucgaaugac ucuccaccua ucuaacaucc cccccagac 60
gacucgccccg a 71

<210> 28
<211> 71
<212> RNA
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<223> All pyrimidines are 2'F.

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gggaggacga ugcggucgac cucgaaugac ucuccaccua ucuaacagcc uccccagac 60
gacucgccccg a 71

<210> 29
<211> 71
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<222> (1)..(71)

<223> All pyrimidines are 2'F.

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gacucgcccg a 71

<210> 30

<211> 71

<212> RNA

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gacucgcccg a 71

<210> 31

<211> 71

<212> RNA

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<222> (1)..(71)

<223> All pyrimidines are 2'F.

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gacucgcccg a 71

<210> 32

<211> 71
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<400> 32
gggaggacga ugcggaagcc aaccucuaug ucagccuuuc guuucccacg ccaccagac 60
gacucgccc a 71

<210> 33
<211> 72
<212> RNA
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<222> (1)..(72)
<223> All pyrimidines are 2'F.

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gggaggacga ugcgggacca acuaaacugu ucgaaagcug gaacaugucc ugacgccaga 60
cgacucgccc ga 72

<210> 34
<211> 71
<212> RNA
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<223> All pyrimidines are 2'F.

<400> 34
gggaggacga ugcggaccaa cuaacuguu cgaaagcugg aacacguccu gacgccagac 60

gacucgcccg a

71

<210> 35

<211> 71

<212> RNA

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<221> modified_base

<222> (1)..(71)

<223> All pyrimidines are 2'F.

<400> 35

gggaggacga ugcggaccaa cuaaacuguu cgaaagcuag aacacgucca gacgccagac 60
gacucgcccg a 71

<210> 36

<211> 71

<212> RNA

<213> Artificial Sequence

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<222> (1)..(71)

<223> All pyrimidines are 2'F.

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gggaggacga ugcggaccaa cuaaacuguu cgaaagcugg aacacguucu gacgccagac 60
gacucgcccg a 71

<210> 37

<211> 71

<212> RNA

<213> Artificial Sequence

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<222> (1)..(71)

<223> All pyrimidines are 2'F.

<400> 37

gggaggacga ugcggaccaa cuaaacuguu cgaaagcugg aaucguccu gacgccagac 60
gacucgccc a 71

<210> 38

<211> 71

<212> RNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Nucleic Acid

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<221> modified_base

<222> (1)..(71)

<223> All pyrimidines are 2'F.

<400> 38

gggaggacga ugcggaaguu uagugcucca guuccgacac uccucuacuc agccccagac 60
gacucgccc a 71

<210> 39

<211> 71

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

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<221> modified_base

<222> (1)..(71)

<223> All pyrimidines are 2'F.

<400> 39

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gacucgccc a 71

<210> 40

<211> 71

<212> RNA

<213> Artificial Sequence

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<221> modified_base
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<223> All pyrimidines are 2'F.

<400> 40
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gacucgccccg a 71

<210> 41
<211> 71
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Nucleic Acid

<220>
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<222> (1)..(71)
<223> All pyrimidines are 2'F.

<400> 41
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gacucgccccg a 71

<210> 42
<211> 71
<212> RNA
<213> Artificial Sequence

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<223> All pyrimidines are 2'F.

<400> 42
gggaggacga ugcggaucuc gauccuucag cacuucuuu cauuccuuuc ugccccagac 60
gacucgccccg a 71

<210> 43
<211> 71
<212> RNA
<213> Artificial Sequence

<220>

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<221> modified_base

<222> (1)..(71)

<223> All pyrimidines are 2'F.

<400> 43

gggaggacga ugcggacgau ccuuuccuua acauuucauc auuucucuug ugccccagac 60
gacucgccc a 71

<210> 44

<211> 71

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(71)

<223> All pyrimidines are 2'F.

<400> 44

gggaggacga ugcggugacg acaacucgac ugcauauuc acaacuccug ugccccagac 60
gacucgccc a 71

<210> 45

<211> 72

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(72)

<223> All pyrimidines are 2'F.

<400> 45

gggaggacga ugcggacuag accgcgaguc cauucaacuu gcccaaaaac cucccccaga 60
cgacucgccc ga 72

<210> 46

<211> 70

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(70)

<223> All pyrimidines are 2'F.

<400> 46

gggaggacga ugcgggcgca ucgagcaaca uccgauucgg auuccuccac ucccccagac 60
gacugcccga 70

<210> 47

<211> 50

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(50)

<223> All pyrimidines are 2'F; linkage at positions 50
and 51 is 3'-3'.

<400> 47

gggaggacga ugcggaacaa ugcacucguc gccgaaugg auguuuugcu 50

<210> 48

<211> 55

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; linkage at positions 55
and 56 is 3'-3'.

<400> 48

gggaggacga ugcggaacaa ugcacucguc gccgaaugg auguuuugcu ccug 55

<210> 49
<211> 55
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; g's at positions 1-3, 5
and 55 are 2'OMe; a at position 4 is 2'OMe;
linkage at positions 55 and 56 is 3'-3'.

<400> 49

gggaggacga ugcggaacaa ugcacucguc gccguaaugg auguuuugcu cccug 55

<210> 50

<211> 55

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; g's at positions 6, 9, 12
and 14 are 2'OMe; a's at positions 7 and 10 are
2'OMe; linkage at positions is 3'-3'.

<400> 50

gggaggacga ugcggaacaa ugcacucguc gccguaaugg auguuuugcu cccug 55

<210> 51

<211> 55

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; g's at positions 15 and

22 are 2'OMe; a's at positions 16-17, 19-20 and 24
are 2'OMe; linkage at positions 55 and 56 is
3'-3'.

<400> 51

gggaggacga ugcggaacaa ugcacucguc gccguaaugg auguuuugcu ccug 55

<210> 52

<211> 55

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; g's at positions 38, 41
and 44 are 2'OMe; linkage at positions 55 and 56
is 3'-3'.

<400> 52

gggaggacga ugcggaacaa ugcacucguc gccguaaugg auguuuugcu ccug 55

<210> 53

<211> 55

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; g's at positions 39-40,
43 and 48 are 2'OMe; a's at positions 36-37 and 41
are 2'OMe; linkage at positions 55 and 56 is
3'-3'.

<400> 53

gggaggacga ugcggaacaa ugcacucguc gccguaaugg auguuuugcu ccug 55

<210> 54

<211> 55

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; g's at positions 1-3, 5-6, 9, 12, 14-15, 22, 28, 31, 34, 39-40, 43, 48 and 55 are 2'OMe.

<220>

<221> modified_base

<222> (1)..(55)

<223> A's at positions 7, 10, 16-17, 19-20, 24, 36-37, and 41 are 2'OMe; linkage at positions 55 and 56 is 3'-3'.

<400> 54

gggaggacga ugcggaacaa ugcacucguc gccgaaugg auguuuugcu cccug 55

<210> 55

<211> 55

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; g's at positions 1-3, 5-6, 9, 12, 14-15, 22, 39-40, 43, 48 and 55 are 2'OMe; a's at positions 4,7, 10, 16-17,19-20, 24-36-37, 40 are 2'OMe.

<220>

<221> modified_base

<222> (1)..(55)

<223> Linkage at positions 55 and 56 is 3'-3'.

<400> 55

gggaggacga ugcggaacaa ugcacucguc gccgaaugg auguuuugcu cccug 55

<210> 56

<211> 55

<212> RNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; g's at positions 1-3, 5-6, 15, 22, 39-40, 43, 48 and 55 are 2'OMe; a's at positions 4, 16-17, 19-20, 24 36-37 and 40 are 2'OMe; linkage at positions 55 and 56 is 3'-3'.

<400> 56

gggaggacga ugcggaacaa ugcacucguc gccguaaugg auguuuugcu cccug 55

<210> 57

<211> 55

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; g's at positions 1-3, 5, 15, 22, 39-40, 43, 48, and 55 are 2'OMe; a's at positions 4, 7, 16-17, 19-20, 24, 36-37 and 40 are 2'OMe; linkage at positions 55 and 56 is 3'-3'.

<400> 57

gggaggacga ugcggaacaa ugcacucguc gccguaaugg auguuuugcu cccug 55

<210> 58

<211> 55

<212> RNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; g's at positions 1-3, 5,

9, 15, 22, 39-40, 43, 48 and 55 are 2'OMe; a's at positions 4, 16-17, 19-20, 24, 36-37 and 41 are 2'OMe; linkage at positions 55 and 56 is 3'-3'.

<400> 58

gggaggacga ugcggaacaa ugcacucguc gccgaaugg auguuuugcu ccug 55

<210> 59

<211> 55

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; g's at positions 1-3, 5, 15, 22, 39-40, 43, 48 and 55 are 2'OMe; a's at positions 4, 10, 16-17, 19-20, 24, 36-37, and 41 are 2'OMe; linkage at positions 55 and 56 is 3'-3'.

<400> 59

gggaggacga ugcggaacaa ugcacucguc gccgaaugg auguuuugcu ccug 55

<210> 60

<211> 55

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; g's at positions 1-3, 5, 12, 14-15, 22, 39-40, 43, 48 and 55 are 2'OMe; a's at positions 4, 16-17, 19-20, 24, 36-37 and 41 are 2'OMe; linkage at positions 55 and 56 is 3'-3'.

<400> 60

gggaggacga ugcggaacaa ugcacucguc gccgaaugg auguuuugcu ccug 55

<210> 61

<211> 55

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; g's at positions 1-3, 6, 15, 22, 28, 39-40, 43, 48, and 55 are 2'OMe; a's at positions 4, 16-17, 19-20, 24, 36-37 and 40 are 2'OMe; linkage at positions 55 and 56 is 3'-3'.

<400> 61

gggaggacga ugcggaacaa ugcacucguc gccguaaugg auguuuugcu cccug 55

<210> 62

<211> 55

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; g's at positions 1-3, 5, 15, 22, 39-40, 43, 48 and 55 are 2'OMe; a's at positions 4, 16-17, 19-20, 27, 36-37 and 40 are 2'OMe; linkage at positions 55 and 56 is 3'-3'.

<400> 62

gggaggacga ugcggaacaa ugcacucguc gccguaaugg auguuuugcu cccug 55

<210> 63

<211> 55

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(55)

<223> All pyrimidines are 2'F; g's at positions 1-3, 5,

15, 22, 39-40, 43, 48 and 55 are 2'OMe; a's at positions 4, 16-17, 19-20, 24, 36-37, and 40 are 2'OMe; linkage at positions 55 and 56 is 3'-3'.

<400> 63

gggaggacga ugcggaacaa ugcacucguc gccgaaugg auguuuugcu cccug 55

<210> 64

<211> 39

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(39)

<223> All pyrimidines are 2'F; g's at positions 2-3, 5-6, 23-24, 27, 32, and 39 are 2'OMe; a's at positions 4, 7, 20-21, and 25 are 2'OMe; N at position 10 is (CH₂CH₂O).

<220>

<221> modified_base

<222> (1)..(39)

<223> Linkage at positions 39 and 40 is 3'-3'.

<400> 64

gggaggacgn cgucgccgua auggauguu ugcucccug 39

<210> 65

<211> 34

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic Acid

<220>

<221> modified_base

<222> (1)..(34)

<223> All pyrimidines are 2'F; g's at positions 2-3, 5-6, 23-24, 27 and 32 are 2'OMe; a's at positions 4, 7, 20-21, and 25 are 2'OMe; N at position 10 is (CH₂CH₂O); linkage at positions 34 and 35 is 3'-3'.

<400> 65

gggaggacgn cgucgccgua auggauguuu ugcu

34